#### **BEST AVAILABLE COPY**

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

### (19) World Intellectual Property Organization International Bureau



## 

(43) International Publication Date 19 January 2006 (19.01.2006)

**PCT** 

# (10) International Publication Number WO 2006/006761 A 1

(51) International Patent Classification7:

B65D 65/46

(21) International Application Number:

PCT/KR2005/000217

- (22) International Filing Date: 26 January 2005 (26.01.2005)
- (25) Filing Language:

Korean

(26) Publication Language:

English

(30) Priority Data: 10-2004-0053629

9 July 2004 (09.07.2004) KR

- (71) Applicant (for all designated States except US): YOUL CHON CHEMICAL CO., LTD [KR/KR]; #370-1, Sindaebang-dong, Dongjak-gu, Seoul 156-709 (KR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): KIM, Heon Moo [KR/KR]; Jugong Apt. 338-508, #552, Cheolsan-dong, Kwangmyeong-si, Kyeonggi-do 423-733 (KR). LEE, Sung-Arn [KR/KR]; Jugong, Apt. 320-303, Weolpi-dong, Sangrok-gu, Ansan-si, Kyeonggi-do 425-798 (KR). KIM, Kang-Soo [KR/KR]; Jugong Greenvill Apt. 908-503, #765, Gojan 1-dong, Danwon-gu, Ansan-si, Kyeonggi-do 425-798 (KR). AN, Jun-Seung [KR/KR]; Hyundae 1-cha Apt. 3-206, #661-3, Gojan 1-dong, Danwon-gu, Ansan-si, Kyeonggi-do 425-806 (KR). KIM, Young-Hee [KR/KR]; Woosung Apt. 5-505, Bono 3-dong, Sangrok-gu, Ansan-si, Kyeonggi-do 426-732 (KR).

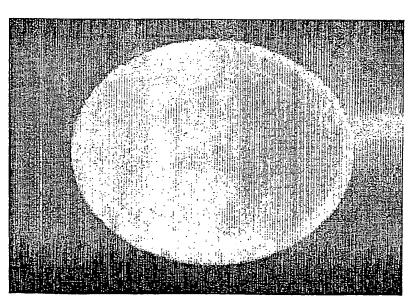
- (74) Agent: KIM, Sun-young; Korea Coal Center, 10th Floor. 80-6, Susong-Dong, Chongro-Ku. Seoul 110-727 (KR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: BIODEGRADABLE STARCH BOWL AND METHOD FOR PREPARING THE SAME



(57) Abstract: Disclosed is biodegradable starch bowl prepared by heating and pressurizing a composition for the biodegradable starch bowl comprising unmodified starch of 20-60 wt.%; pulp fiber powder of 5~30 wt.%; solvent of 30~60 wt.%; photo catalyst of 0.1~2.0 wt.%; preservative of 0.01~1 wt.%; and releasing agent of 0.5~5 wt.% to have a desired shape, and a biodegradable film being attached on the inner surface of the bowl. biodegradable starch bowl according to the present invention has an improved sterilizing property, deodorizing property, preservative property, releasing property, water-resistance and strength.